

APPENDIX 3.13A

ACAM Air Emissions Calculations

The U.S. Air Force's Air Conformity Applicability Model (ACAM), Version 5.0, January 2014, was used to estimate construction- and operations-related air emissions for each of the four proposed locations of NGA's West Facility.

Construction-related air emissions for each site were estimated based on data provided by NGA and the U.S. Army Corps of Engineers, and on standard assumptions, including the following phases:

- Grading of the sites will begin in September 2017 and last for approximately 3 months.
- Demolition will begin at the Mehlville Site in December 2017 and last for approximately 3 months.
 Demolition at the Fenton, St. Louis City, and St. Clair County sites is expected to be completed prior to NGA's acquisition of the property; therefore, demolition-related air emissions were not calculated for these sites.
- Demolition waste hauling will occur during the demolition at the Mehlville Site.
- Trenching along the site perimeters will begin in January 2018 and last for approximately 30 days.
- Building construction will begin at each site in January 2018 and last for approximately 61 months.
 This will include construction of the Main Operations Building, Central Utility Plant, Visitor Control Center, Remote Inspection Facility, and Structured Parking Garages.
- Architectural coatings of the facility will begin in February 2023 and last for approximately 1 month.
- Paving of site streets and parking areas will begin in February 2023 and last for approximately 30 days.

Operational air emissions were also estimated for each site. Operational air emissions will begin once construction of the NGA West Facility is completed, anticipated in June 2023. The NGA West Facility is expected to be fully operational in 2024. Operational air emissions include the following sources:

- Emergency generator activity using Diesel #2 fuel.
- The facility's emergency generator will have an associated storage tank capable of storing enough fuel to supply the generator for 24 hours.
- Personnel commuting based on the average commute distance for each of the four potential NGA West locations.

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The following tables detail the expected air emissions related to each of the four proposed NGA West Facility locations for the years 2017 through 2024. Over the duration of the project, 2023 is expected to have the highest air emissions. This is a result of the construction activities during the first half of the year and the facility operations during the second half of the year. Expected air emissions for the No Action Alternative are also included below. The existing NGA West Facility will remain in operation during the first half of 2023; therefore, emissions for 2023 from the No Action Alternative would include personnel commuting to the existing site. Similarly, emissions for 2024 from the No Action Alternative would include personnel commuting to the existing site. The ACAM output reports for each site are attached to this Appendix.

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Fenton Site

VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	SO ₂ (tons/year)	PM ₁₀ (tons/year)	PM _{2.5} (tons/year)	Lead (tons/year)
			2017			
0.694	5.200	3.097	0.008	378.322	0.223	0.000
			2018			
0.587	3.667	3.449	0.010	0.816	0.170	0.000
			2019			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
	2020					
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2021			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2022			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
2023						
33.418	9.865	178.470	0.259	0.604	0.349	0.000
2024						
20.045	16.070	305.069	0.441	0.992	0.556	0.000

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Mehlville Site

		1	Memvine Site	1	1	1
VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	SO ₂ (tons/year)	PM ₁₀ (tons/year)	PM _{2.5} (tons/year)	Lead (tons/year)
			2017			
0.821	5.730	4.329	0.010	131.145	0.245	0.000
			2018			
0.900	4.772	6.824	0.014	5.365	0.215	0.000
			2019			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2020			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2021			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2022			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
	2023					
34.619	10.819	198.206	0.276	0.656	0.373	0.000
2024						
22.249	17.705	338.903	0.471	1.081	0.597	0.000

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North St. Louis Site

VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	SO ₂ tons/year)	PM ₁₀ (tons/year)	PM _{2.5} (tons/year)	Lead (tons/year)
			2017			
0.694	5.200	3.097	0.008	175.076	0.223	0.000
			2018			
0.587	3.667	3.449	0.010	0.657	0.170	0.000
			2019			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2020			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2021			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
			2022			
0.558	3.478	3.268	0.010	0.170	0.161	0.000
2023						
33.178	9.738	175.838	0.256	0.597	0.345	0.000
2024						
19.751	15.852	300.558	0.437	0.980	0.550	0.000

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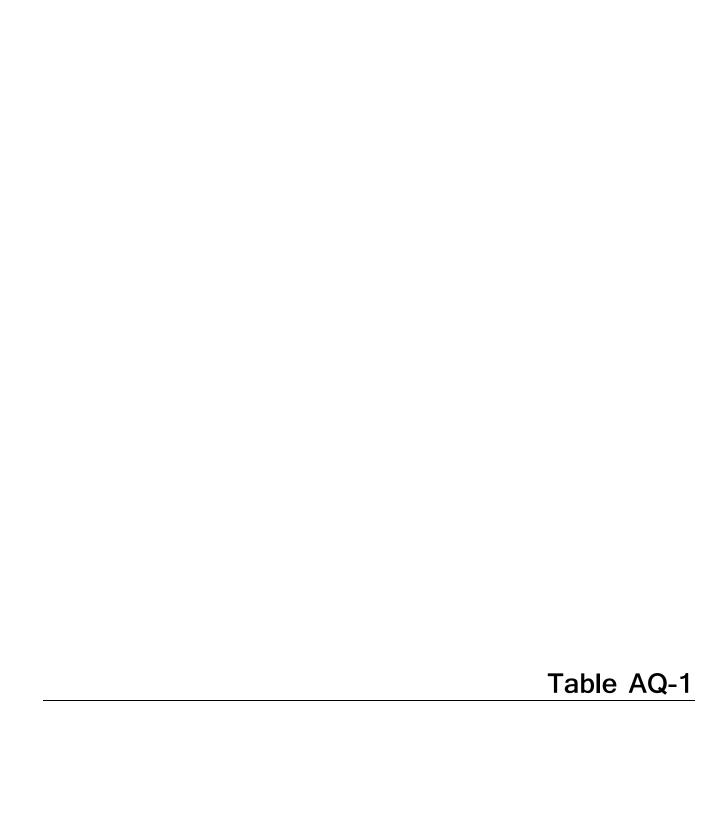
St. Clair Site

VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	SO ₂ (tons/year)	PM ₁₀ (tons/year)	PM _{2.5} (tons/year)	Lead (tons/year)
			2017			
0.694	5.200	3.110	0.008	234.226	0.223	0.000
			2018			
0.588	3.667	3.478	0.010	0.802	0.170	0.000
			2019			
0.558	3.478	3.296	0.010	0.170	0.161	0.000
			2020			
0.558	3.478	3.296	0.010	0.170	0.161	0.000
			2021			
0.558	3.478	3.296	0.010	0.170	0.161	0.000
			2022			
0.558	3.478	3.296	0.010	0.170	0.161	0.000
			2023			
46.786	19.921	401.195	0.440	1.147	0.598	0.000
	2024					
43.046	33.309	686.877	0.752	1.924	0.984	0.000

No Action Alternative

VOC (tons/year)	NO _x (tons/year)	CO (tons/year)	SO ₂ (tons/year)	PM ₁₀ (tons/year)	PM _{2.5} (tons/year)	Lead (tons/year)	
	2023						
9.699	7.194	148.870	0.131	0.394	0.181	0.000	
2024							
13.856	10.277	212.671	0.188	0.563	0.259	0.000	

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1. General Information: The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with Air Force Instruction 32-7040, Air Quality Compliance and Resource Management; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

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Base: LAMBERT-ST. LOUIS IAP

County(s): St Louis

Regulatory Area(s): St Louis, MO-IL

b. Action Title: Construction of the NGA West Facility at the Fenton Site

c. Project Number/s (if applicable):

d. Projected Action Start Date: 1 / 2017

e. Action Description:

The Proposed NGA action is to vacate the South 2nd Street facility, and then site, construct, and operate a purpose built geospatial collection, analysis, and distribution facility.

f. Point of Contact:

Name: Caitlin Santinelli

Title: Scientist
Organization: CH2M HILL

Email: caitlin.santinelli@ch2m.com

Phone Number: 678.530.4148

2. Analysis: Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" and "steady state" (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are:	applicable
	X not applicable

Conformity Analysis Summary:

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	0.694	100	No	
NOx	5.200	100	No	
CO	3.097			
SOx	0.008	100	No	
PM 10	378.322			
PM 2.5	0.223	100		
Pb	0.000	·		
NH3	0.003	100	No	

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	0.587	100	No	
NOx	3.667	100	No	
CO	3.449			
SOx	0.010	100	No	
PM 10	0.816			
PM 2.5	0.170	100		
Pb	0.000	·		
NH3	0.015	100	No	

2017						
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY				
		Threshold (ton/yr)	Exceedance (Yes or No)			
St Louis, MO-IL						
VOC	0.558	100	No			
NOx	3.478	100	No			
CO	3.268					
SOx	0.010	100	No			
PM 10	0.170					
PM 2.5	0.161	100				
Pb	0.000	·				
NH3	0.015	100	No			

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY				
		Threshold (ton/yr)	Exceedance (Yes or No)			
St Louis, MO-IL						
VOC	0.558	100	No			
NOx	3.478	100	No			
CO	3.268					
SOx	0.010	100	No			
PM 10	0.170					
PM 2.5	0.161	100				
Pb	0.000					
NH3	0.015	100	No			

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Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY				
		Threshold (ton/yr)	Exceedance (Yes or No)			
St Louis, MO-IL						
VOC	0.558	100	No			
NOx	3.478	100	No			
CO	3.268					
SOx	0.010	100	No			
PM 10	0.170					
PM 2.5	0.161	100				
Pb	0.000					
NH3	0.015	100	No			

2022

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	0.558	100	No	
NOx	3.478	100	No	
CO	3.268			
SOx	0.010	100	No	
PM 10	0.170			
PM 2.5	0.161	100		
Pb	0.000	·		
NH3	0.015	100	No	

2023

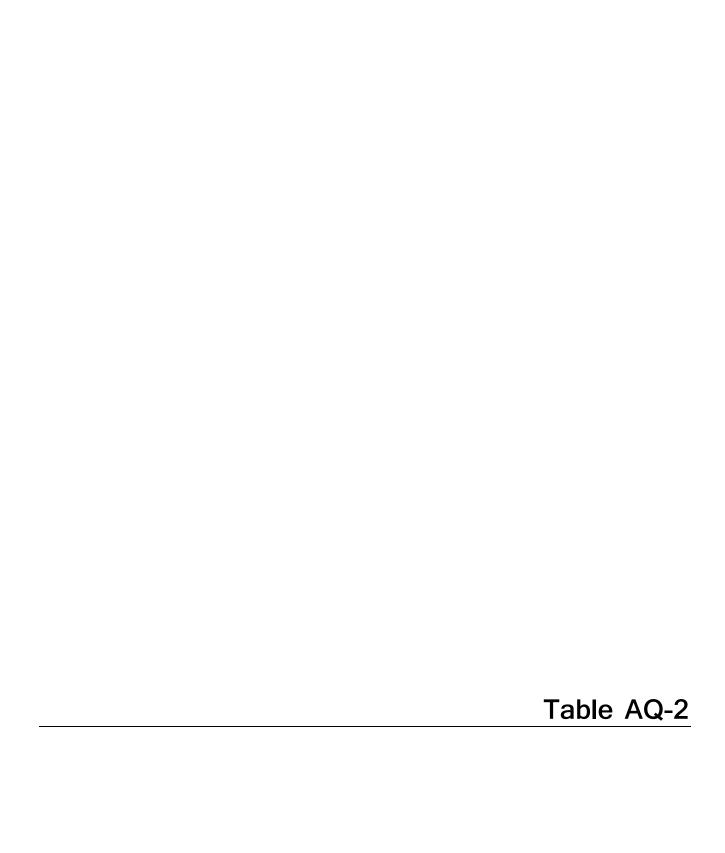
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY			
		Threshold (ton/yr)	Exceedance (Yes or No)		
St Louis, MO-IL					
VOC	33.418	100	No		
NOx	9.865	100	No		
CO	178.470				
SOx	0.259	100	No		
PM 10	0.604				
PM 2.5	0.349	100			
Pb	0.000				
NH3	1.873	100	No		

2024 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	20.045	100	No	
NOx	16.070	100	No	
CO	305.069			
SOx	0.441	100	No	
PM 10	0.992			
PM 2.5	0.556	100		
Pb	0.000			
NH3	3.207	100	No	

All estimated emissions associated with this action are below the conformity threshold values established at 40 CFR 93.153 (b); therefore, the requirements of the General Conformity Rule are not applicable.

Caitlin Santinelli, Scientist	DATE



1. General Information: The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with Air Force Instruction 32-7040, Air Quality Compliance and Resource Management; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

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Base: LAMBERT-ST. LOUIS IAP

County(s): St Louis

Regulatory Area(s): St Louis, MO-IL

b. Action Title: Construction of the NGA West Facility at the Mehlville Site

c. Project Number/s (if applicable):

d. Projected Action Start Date: 1 / 2017

e. Action Description:

The Proposed NGA action is to vacate the South 2nd Street facility, and then site, construct, and operate a purpose-built geospatial collection, analysis, and distribution facility.

f. Point of Contact:

Name: Caitlin Santinelli

Title: Scientist **Organization:** CH2M HILL

Email: caitlin.santinelli@ch2m.com

Phone Number: 678.530.4148

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Based on the analysis, the requirements of this rule are:	applicable
	X not applicable

Conformity Analysis Summary:

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY			
		Threshold (ton/yr)	Exceedance (Yes or No)		
St Louis, MO-IL					
VOC	0.821	100	No		
NOx	5.730	100	No		
CO	4.329				
SOx	0.010	100	No		
PM 10	131.145				
PM 2.5	0.245	100			
Pb	0.000				
NH3	0.013	100	No		

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	0.900	100	No	
NOx	4.772	100	No	
CO	6.824			
SOx	0.014	100	No	
PM 10	5.365			
PM 2.5	0.215	100		
Pb	0.000	·		
NH3	0.044	100	No	

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY			
		Threshold (ton/yr)	Exceedance (Yes or No)		
St Louis, MO-IL					
VOC	0.558	100	No		
NOx	3.478	100	No		
CO	3.268				
SOx	0.010	100	No		
PM 10	0.170				
PM 2.5	0.161	100			
Pb	0.000				
NH3	0.015	100	No		

2020					
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY			
		Threshold (ton/yr)	Exceedance (Yes or No)		
St Louis, MO-IL					
VOC	0.558	100	No		
NOx	3.478	100	No		
CO	3.268				
SOx	0.010	100	No		
PM 10	0.170				
PM 2.5	0.161	100			
Pb	0.000				
NH3	0.015	100	No		

2021					
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY			
		Threshold (ton/yr)	Exceedance (Yes or No)		
St Louis, MO-IL					
VOC	0.558	100	No		
NOx	3.478	100	No		
CO	3.268				
SOx	0.010	100	No		
PM 10	0.170				
PM 2.5	0.161	100			
Pb	0.000				
NH3	0.015	100	No		

2022

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	0.558	100	No	
NOx	3.478	100	No	
CO	3.268			
SOx	0.010	100	No	
PM 10	0.170			
PM 2.5	0.161	100		
Pb	0.000			
NH3	0.015	100	No	

2023

2025				
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	34.619	100	No	
NOx	10.819	100	No	
CO	198.206			
SOx	0.276	100	No	
PM 10	0.656			
PM 2.5	0.373	100		
Pb	0.000			
NH3	2.081	100	No	

2024 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	22.249	100	No
NOx	17.705	100	No
CO	338.903		
SOx	0.471	100	No
PM 10	1.081		
PM 2.5	0.597	100	
Pb	0.000		
NH3	3.564	100	No

All estimated emissions associated with this action are below the conformity threshold values established at 40 CFR 93.153 (b); therefore, the requirements of the General Conformity Rule are not applicable.

Caitlin Santinelli, Scientist	DATE

1. General Information: The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with Air Force Instruction 32-7040, Air Quality Compliance and Resource Management; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

a. Action Location:

Base: LAMBERT-ST. LOUIS IAP

County(s): St Louis City

Regulatory Area(s): St Louis, MO-IL; St Louis, MO

b. Action Title: Construction of the NGA West Facility at the St. Louis City Site

c. Project Number/s (if applicable):

d. Projected Action Start Date: 1 / 2017

e. Action Description:

The Proposed NGA action is to vacate the South 2nd Street facility, and then site, construct, and operate a purpose-built geospatial collection, analysis, and distribution facility.

f. Point of Contact:

Name: Caitlin Santinelli

Title: Scientist **Organization:** CH2M HILL

Email: caitlin.santinelli@ch2m.com

Phone Number: 678.530.4148

2. Analysis: Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" and "steady state" (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are:	X applicable
	not applicable

Conformity Analysis Summary:

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.694	100	No
NOx	5.200	100	No
CO	3.097		
SOx	0.008	100	No
PM 10	175.076		
PM 2.5	0.223	100	
Pb	0.000		
NH3	0.003	100	No
St Louis, MO			
VOC	0.694	·	

NOx	5.200		
CO	3.097	100	No
SOx	0.008		
PM 10	175.076		
PM 2.5	0.223		
Pb	0.000		
NH3	0.003		

2010			
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.587	100	No
NOx	3.667	100	No
CO	3.449		
SOx	0.010	100	No
PM 10	0.657		
PM 2.5	0.170	100	
Pb	0.000		
NH3	0.015	100	No
St Louis, MO			
VOC	0.587		
NOx	3.667		
CO	3.449	100	No
SOx	0.010		
PM 10	0.657	·	
PM 2.5	0.170		
Pb	0.000		
NH3	0.015		

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.268		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000		
NH3	0.015	100	No
St Louis, MO			
VOC	0.558		
NOx	3.478		
CO	3.268	100	No
SOx	0.010		
PM 10	0.170	·	
PM 2.5	0.161	<u> </u>	
Pb	0.000		
NH3	0.015	·	

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.268		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000		
NH3	0.015	100	No
St Louis, MO			
VOC	0.558		
NOx	3.478		
CO	3.268	100	No
SOx	0.010		
PM 10	0.170	·	
PM 2.5	0.161	·	
Pb	0.000		
NH3	0.015	<u>-</u>	

2021				
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
St Louis, MO-IL				
VOC	0.558	100	No	
NOx	3.478	100	No	
CO	3.268			
SOx	0.010	100	No	
PM 10	0.170			
PM 2.5	0.161	100		
Pb	0.000			
NH3	0.015	100	No	
St Louis, MO				
VOC	0.558			
NOx	3.478			
CO	3.268	100	No	
SOx	0.010			
PM 10	0.170	·		
PM 2.5	0.161			
Pb	0.000			
NH3	0.015			

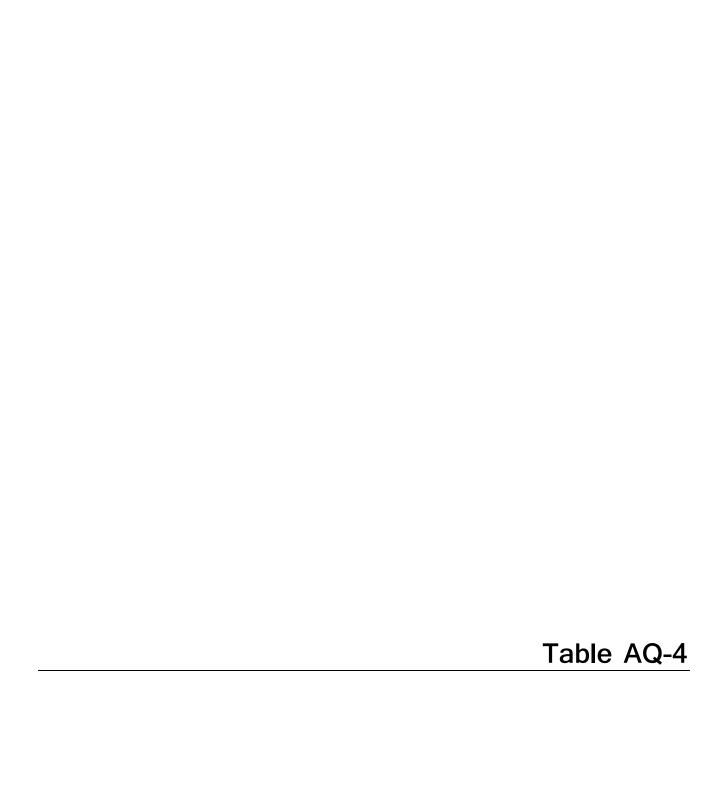
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.268		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000		
NH3	0.015	100	No
St Louis, MO			
VOC	0.558		
NOx	3.478		
CO	3.268	100	No
SOx	0.010		
PM 10	0.170	<u> </u>	
PM 2.5	0.161		
Pb	0.000	·	
NH3	0.015	<u> </u>	

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Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL		-	
VOC	33.178	100	No
NOx	9.738	100	No
CO	175.838		
SOx	0.256	100	No
PM 10	0.597		
PM 2.5	0.345	100	
Pb	0.000		
NH3	1.845	100	No
St Louis, MO			
VOC	33.178		
NOx	9.738		
CO	175.838	100	Yes
SOx	0.256		
PM 10	0.597		
PM 2.5	0.345		
Pb	0.000		
NH3	1.845		

2024 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	19.751	100	No
NOx	15.852	100	No
CO	300.558		
SOx	0.437	100	No
PM 10	0.980		
PM 2.5	0.550	100	
Pb	0.000		
NH3	3.160	100	No
St Louis, MO			
VOC	19.751		
NOx	15.852		
CO	300.558	100	Yes
SOx	0.437		
PM 10	0.980		
PM 2.5	0.550		
Pb	0.000	·	
NH3	3.160		

CFR 93.153 (b); therefore, the requirements of the General Conformity Rule are applicable	
Caitlin Santinelli, Scientist	DATE



1. General Information: The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with Air Force Instruction 32-7040, Air Quality Compliance and Resource Management; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

a. Action Location:

Base: LAMBERT-ST. LOUIS IAP

County(s): St Clair

Regulatory Area(s): St Louis, MO-IL

b. Action Title: Construction of the NGA West Facility at the St. Clair County Site, Illinois

c. Project Number/s (if applicable):

d. Projected Action Start Date: 9 / 2017

e. Action Description:

The Proposed NGA action is to vacate the South 2nd Street facility, and then site, construct, and operate a purpose-built geospatial collection, analysis, and distribution facility.

f. Point of Contact:

Name: Caitlin Santinelli
Title: Environmental Scientist

Organization: CH2M HILL

Email: caitlin.santinelli@ch2m.com

Phone Number: 678.530.4148

2. Analysis: Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" and "steady state" (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are:	applicable
	X not applicable

Conformity Analysis Summary:

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.694	100	No
NOx	5.200	100	No
CO	3.110		
SOx	0.008	100	No
PM 10	234.226		
PM 2.5	0.223	100	
Pb	0.000	·	
NH3	0.003	100	No

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.588	100	No
NOx	3.667	100	No
CO	3.478		
SOx	0.010	100	No
PM 10	0.802		
PM 2.5	0.170	100	
Pb	0.000	·	
NH3	0.015	100	No

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.296		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000	·	
NH3	0.015	100	No

2020			
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.296		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000		
NH3	0.015	100	No

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.296		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000		
NH3	0.015	100	No

2022

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.558	100	No
NOx	3.478	100	No
CO	3.296		
SOx	0.010	100	No
PM 10	0.170		
PM 2.5	0.161	100	
Pb	0.000	·	
NH3	0.015	100	No

2023

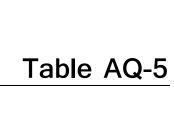
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	46.786	100	No
NOx	19.921	100	No
CO	401.195		
SOx	0.440	100	No
PM 10	1.147		
PM 2.5	0.598	100	
Pb	0.000		
NH3	4.035	100	No

2024 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	43.046	100	No
NOx	33.309	100	No
CO	686.877		
SOx	0.752	100	No
PM 10	1.924		
PM 2.5	0.984	100	
Pb	0.000		
NH3	6.914	100	No

All estimated emissions associated with this action are below the conformity threshold values established at 40 CFR 93.153 (b); therefore, the requirements of the General Conformity Rule are not applicable.

Caitlin Santinelli, Environmental Scientist	DATE



1. General Information: The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with Air Force Instruction 32-7040, Air Quality Compliance and Resource Management; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

a. Action Location:

Base: LAMBERT-ST. LOUIS IAP

County(s): St Louis City

Regulatory Area(s): St Louis, MO-IL; St Louis, MO

b. Action Title: Relocation of NGA West Facility - No Action Alternative

c. Project Number/s (if applicable):

d. Projected Action Start Date: 1 / 2023

e. Action Description:

The Proposed NGA action is to vacate the South 2nd Street facility, and then site, construct, and operate a purpose-built geospatial collection, analysis, and distribution facility. However, if none of the proposed alternatives is suitable, NGA may choose to take no action.

f. Point of Contact:

Name: Caitlin Santinelli

Title: Scientist
Organization: CH2M HILL

Email: caitlin.santinelli@ch2m.com

Phone Number: 678.530.4148

2. Analysis: Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" and "steady state" (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are:	X applicable
	not applicable

Conformity Analysis Summary:

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	9.699	100	No
NOx	7.194	100	No
CO	148.870		
SOx	0.131	100	No
PM 10	0.394		
PM 2.5	0.181	100	
Pb	0.000		
NH3	1.568	100	No
St Louis, MO			

VOC	9.699		
NOx	7.194		
СО	148.870	100	Yes
SOx	0.131		
PM 10	0.394		
PM 2.5	0.181		
Pb	0.000		
NH3	1.568		

2024 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
St Louis, MO-IL			
VOC	0.000	100	No
NOx	0.000	100	No
CO	0.000		
SOx	0.000	100	No
PM 10	0.000		
PM 2.5	0.000	100	
Pb	0.000		
NH3	0.000	100	No
St Louis, MO			
VOC	0.000		
NOx	0.000		
CO	0.000	100	No
SOx	0.000	·	
PM 10	0.000		
PM 2.5	0.000	·	
Pb	0.000	·	
NH3	0.000		

CFR 93.153 (b); therefore, the requirements of the General Conformity Rule are applicable.			
Caitlin Santinelli, Scientist	DATE		

All estimated emissions associated with this action are below the conformity threshold values established at 40